```
FILE 'HOME' ENTERED AT 16:08:05 ON 08 AUG 2006

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'REGISTRY' ENTERED AT 16:08:14 ON 08 AUG 2006
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STRUCTURE FILE UPDATES:    7 AUG 2006  HIGHEST RN 899508-12-4
DICTIONARY FILE UPDATES:   7 AUG 2006  HIGHEST RN 899508-12-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

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predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading c:\program files\stnexp\queries\10672052sotwofluorinated.str

L1      STRUCTURE UPLOADED

=>
Uploading c:\program files\stnexp\queries\10627052cyano.str

L2      STRUCTURE UPLOADED

=>
Uploading c:\program files\stnexp\queries\10672052carboxylate.str

L3      STRUCTURE UPLOADED

=>
Uploading c:\program files\stnexp\queries\10672052sotwoalkyl.str

L4      STRUCTURE UPLOADED

=> s l1 sss full
FULL SEARCH INITIATED 16:10:26 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        3 TO ITERATE

100.0% PROCESSED        3 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L5            0 SEA SSS FUL L1

=> s l2 sss full
FULL SEARCH INITIATED 16:10:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       21 TO ITERATE

100.0% PROCESSED       21 ITERATIONS                               14 ANSWERS
SEARCH TIME: 00.00.01

L6           14 SEA SSS FUL L2

=> s l3 sss full
```

```
$%^STN;HighlightOn=  ***;HighlightOff=***  ;
Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1756mja

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 27   New STN AnaVist pricing effective March 1, 2006
 NEWS  4  APR 04   STN AnaVist $500 visualization usage credit offered
 NEWS  5  MAY 10   CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  6  MAY 11   KOREAPAT updates resume
 NEWS  7  MAY 19   Derwent World Patents Index to be reloaded and enhanced
 NEWS  8  MAY 30   IPC 8 Rolled-up Core codes added to CA/CAplus and
                   USPATFULL/USPAT2
 NEWS  9  MAY 30   The F-Term thesaurus is now available in CA/CAplus
 NEWS 10  JUN 02   The first reclassification of IPC codes now complete in
                   INPADOC
 NEWS 11  JUN 26   TULSA/TULSA2 reloaded and enhanced with new search and
                   and display fields
 NEWS 12  JUN 28   Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 13  JUl 11   CHEMSAFE reloaded and enhanced
 NEWS 14  JUl 14   FSTA enhanced with Japanese patents
 NEWS 15  JUl 19   Coverage of Research Disclosure reinstated in DWPI

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
 NEWS X25      X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:48:15 ON 08 AUG 2006

=>  file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'CAPLUS' ENTERED AT 15:48:28 ON 08 AUG 2006
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FILE COVERS 1907 - 8 Aug 2006 VOL 145 ISS 7
FILE LAST UPDATED: 7 Aug 2006 (20060807/ED)

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```
=> s  us 2004-0121262/pn
L1            1 US 2004-0121262/PN
                (US2004121262/PN)

=> s  us 2004-00049222/pn
L2            0 US 2004-00049222/PN
                (US2004049222/PN)

=> s  us 2004-0004922/pn
L3            3 US 2004-0004922/PN
                (US2004004922/PN)

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   6.77       6.98
```

FILE 'REGISTRY' ENTERED AT 15:49:24 ON 08 AUG 2006
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STRUCTURE FILE UPDATES: 7 AUG 2006 HIGHEST RN 899508-12-4
DICTIONARY FILE UPDATES: 7 AUG 2006 HIGHEST RN 899508-12-4

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> tra rn l1
L4          TRANSFER L1 1- RN :      19 TERMS
L5          19 L4

=> d scan

L5   19 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN   Phenothiazin-5-ium (8CI, 9CI)
MF   C12 H8 N S
CI   COM, RPS


/ Structure 1 in file .gra /
```

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2-Butanone, 3-methyl- (8CI, 9CI)
MF C5 H10 O
CI COM

/ Structure 2 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Iodine (8CI, 9CI)
MF I2
CI COM

/ Structure 3 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3H-Indolium, 1,2,3,3-tetramethyl-5-nitro-, perchlorate (9CI)
MF C12 H15 N2 O2 . Cl O4

    CM 1

/ Structure 4 in file .gra /

    CM 2

/ Structure 5 in file .gra /

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3H-Indolium, 2-[2-[2-[2-[4-(dimethylamino)phenyl]ethenyl]-4-oxo-4H-1-
    benzopyran-3-yl]ethenyl]-1,3,3-trimethyl-5-nitro-, perchlorate (9CI)
MF C32 H30 N3 O4 . Cl O4

    CM 1

/ Structure 6 in file .gra /

    CM 2

/ Structure 7 in file .gra /

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propanedinitrile, [7-(dimethylamino)-3H-phenothiazin-3-ylidene]- (9CI)
MF C17 H12 N4 S

/ Structure 8 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 2,5-Furandione, 3,4-bis(9-anthracenylmethylene)dihydro- (9CI)
MF C34 H20 O3

/ Structure 9 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Spiro[2H-1-benzopyran-2,2'-[2H]indole], 1',3'-dihydro-3',3'-dimethyl-6,8-dinitro-1'-pentyl- (9CI)
MF C23 H25 N3 O5

/ Structure 10 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 10H-Phenothiazine (9CI)
MF C12 H9 N S
CI COM

/ Structure 11 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Methanamine, N-methyl- (9CI)
MF C2 H7 N
CI COM

/ Structure 12 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Hydrazine, (4-methylphenyl)- (9CI)
MF C7 H10 N2
CI COM

/ Structure 13 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 3H-Indole, 2,3,3-trimethyl-5-nitro- (7CI, 8CI, 9CI)
MF C11 H12 N2 O2
CI COM

/ Structure 14 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Spiro[2H-1-benzopyran-2,2'-[2H]indole], 1',3'-dihydro-3',3'-dimethyl-6,8-dinitro-1'-phenyl- (9CI)
MF C24 H19 N3 O5

/ Structure 15 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Benzo[a][1,4]benzothiazino[3,2-c]phenothiazine-6,9-dione, 5,10-dihydro- (9CI)
MF C22 H12 N2 O2 S2

/ Structure 16 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Iodide (I31-), salt with N,N-dimethyl-10H-phenothiazin-3-amine (1:1) (9CI)
MF C14 H14 N2 S . I3

CM 1

/ Structure 17 in file .gra /

CM 2

/ Structure 18 in file .gra /

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 19 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN 1,3-Dioxane-4,6-dione, 5-[7-(dimethylamino)-3H-phenothiazin-3-ylidene]-2,2-dimethyl- (9CI)

```
MF   C20 H18 N2 O4 S

/ Structure 19 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):o
'O' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to
see.  To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):none

=> d his

     (FILE 'HOME' ENTERED AT 15:48:15 ON 08 AUG 2006)

     FILE 'CAPLUS' ENTERED AT 15:48:28 ON 08 AUG 2006
L1            1 S  US 2004-0121262/PN
L2            0 S  US 2004-00049222/PN
L3            3 S  US 2004-0004922/PN

     FILE 'REGISTRY' ENTERED AT 15:49:24 ON 08 AUG 2006

     FILE 'CAPLUS' ENTERED AT 15:49:31 ON 08 AUG 2006
L4              TRA L1 1- RN :       19 TERMS

     FILE 'REGISTRY' ENTERED AT 15:49:31 ON 08 AUG 2006
L5           19 SEA L4

=> s l5 and phenothiazin?
         36674 PHENOTHIAZIN?
L6           6 L5 AND PHENOTHIAZIN?

=> d scan

L6   6 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN     ***Phenothiazin-5-ium (8CI, 9CI)***
MF   C12 H8 N S
CI   COM, RPS


/ Structure 20 in file .gra /


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6   6 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN     ***Benzo[a][1,4]benzothiazino[3,2-c]phenothiazine-6,9-dione,***
  ***     5,10-dihydro- (9CI)***
MF   C22 H12 N2 O2 S2


/ Structure 21 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6   6 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN     ***Iodide (I31-), salt with N,N-dimethyl-10H-phenothiazin-3-amine (1:1)***
  ***     (9CI)***
MF   C14 H14 N2 S . I3

     CM   1
```

```
/ Structure 22 in file .gra /

     CM   2


/ Structure 23 in file .gra /


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6   6 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN     ***Propanedinitrile, [7-(dimethylamino)-3H-phenothiazin-3-ylidene]-***
  ***      (9CI)***
MF   C17 H12 N4 S


/ Structure 24 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6   6 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN     ***1,3-Dioxane-4,6-dione, 5-[7-(dimethylamino)-3H-phenothiazin-3-***
  ***      ylidene]-2,2-dimethyl- (9CI)***
MF   C20 H18 N2 O4 S




/ Structure 25 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6   6 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN     ***10H-Phenothiazine (9CI)***
MF   C12 H9 N S
CI   COM


/ Structure 26 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


ALL ANSWERS HAVE BEEN SCANNED


=> d his

     (FILE 'HOME' ENTERED AT 15:48:15 ON 08 AUG 2006)

     FILE 'CAPLUS' ENTERED AT 15:48:28 ON 08 AUG 2006
L1             1 S  US 2004-0121262/PN
L2             0 S  US 2004-00049222/PN
L3             3 S  US 2004-0004922/PN

     FILE 'REGISTRY' ENTERED AT 15:49:24 ON 08 AUG 2006

     FILE 'CAPLUS' ENTERED AT 15:49:31 ON 08 AUG 2006
L4               TRA L1 1- RN :       19 TERMS

     FILE 'REGISTRY' ENTERED AT 15:49:31 ON 08 AUG 2006
L5            19 SEA L4
```

```
L6            6 S L5 AND PHENOTHIAZIN?

=> tra rn l3
L7          TRANSFER L3 1- RN :      47 TERMS
L8          47 L7

=> s l8 and phenothiazin?
         36674 PHENOTHIAZIN?
L9           5 L8 AND PHENOTHIAZIN?

=> s l9 or l6
L10         10 L9 OR L6

=> d scan

L10  10 ANSWERS   REGISTRY  COPYRIGHT 2006 ACS on STN
IN    ***10H-Phenothiazine-3,7-diamine, N,N,N',N'-tetrapropyl- (9CI)***
MF   C24 H35 N3 S


/ Structure 27 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):none

=> s l10 and (dinitrile or propanedinitrile or dioxane)
         42820 DINITRILE
             1 DINITRILES
         42820 DINITRILE
                 (DINITRILE OR DINITRILES)
         34556 PROPANEDINITRILE
         38369 DIOXANE
L11          2 L10 AND (DINITRILE OR PROPANEDINITRILE OR DIOXANE)

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               20.80      57.36

FILE 'CAPLUS' ENTERED AT 15:54:03 ON 08 AUG 2006
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FILE COVERS 1907 - 8 Aug 2006  VOL 145 ISS 7
FILE LAST UPDATED: 7 Aug 2006  (20060807/ED)

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=> s l11
L12          1 L11

=> d all

L12  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
```

AN 2003:1007251 CAPLUS <<LOGINID::20060808>>
DN 140:50342
ED Entered STN: 26 Dec 2003
TI Materials for optical medium copy-protection transiently reacting to a reader beam of optical disk
IN Selinfreund, Richard H.; Gerber, Scott; Goyette, Donald R.; Colandreo, Michael; Vig, Rakesh; Li, Junzhong; Cook, Ewell; Turner, Tomeko
PA Verification Technologies, Inc., USA
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM G11B007-00
ICS B29D011-00
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003107331	A1	20031224	WO 2003-US11975	20030417
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2489439	AA	20031224	CA 2003-2489439	20030417
	AU 2003225045	A1	20031231	AU 2003-225045	20030417
	BR 2003011927	A	20050405	BR 2003-11927	20030417
	EP 1532623	A1	20050525	EP 2003-721750	20030417
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2005530285	T2	20051006	JP 2004-514063	20030417
	CA 2503684	AA	20040408	CA 2003-2503684	20030926
	WO 2004029672	A2	20040408	WO 2003-US30897	20030926
	WO 2004029672	A3	20050127		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003275316	A1	20040419	AU 2003-275316	20030926
	US 2004121262	A1	20040624	US 2003-672052	20030926
	EP 1551817	A2	20050713	EP 2003-759592	20030926
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CN 1774427	A	20060517	CN 2003-825305	20030926
PRAI	US 2002-389223P	P	20020617		
	US 2002-390647P	P	20020621		
	US 2002-391773P	P	20020625		
	US 2002-391857P	P	20020626		
	US 2002-393397P	P	20020702		
	US 2002-413934P	P	20020926		
	WO 2003-US11975	W	20030417		
	WO 2003-US30897	W	20030926		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003107331	ICM	G11B007-00
	ICS	B29D011-00
	IPCI	G11B0007-00 [ICM,7]; B29D0011-00 [ICS,7]
	IPCR	B29D0011-00 [I,A]; B29D0011-00 [I,C*]; C07D0279-00

		[I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007 [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	ECLA	G11B007/007R; G11B007/013D; G11B007/243
CA 2489439	IPCI	G11B0007-00 [ICM,7]; B29D0011-00 [ICS,7]
	IPCR	B29D0011-00 [I,A]; B29D0011-00 [I,C*]; C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007 [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	ECLA	G11B007/007R; G11B007/013D; G11B007/243
AU 2003225045	IPCI	G11B0007-00 [ICM,7]; B29D0011-00 [ICS,7]
	IPCR	B29D0011-00 [I,A]; B29D0011-00 [I,C*]; C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007 [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
BR 2003011927	IPCI	G11B0007-00 [ICM,7]; B29D0011-00 [ICS,7]
	IPCR	B29D0011-00 [I,A]; B29D0011-00 [I,C*]; C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007 [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	ECLA	G11B007/007R; G11B007/013D; G11B007/243
EP 1532623	IPCI	G11B0007-00 [ICM,7]; B29D0011-00 [ICS,7]
	IPCR	B29D0011-00 [I,A]; B29D0011-00 [I,C*]; C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007 [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	ECLA	G11B007/007R; G11B007/013D; G11B007/243
JP 2005530285	IPCI	G11B0007-24 [ICM,7]; C07D0279-18 [ICS,7]; C07D0279-00 [ICS,7,C*]; G11B0007-005 [ICS,7]; G11B0007-00 [ICS,7,C*]; G11B0007-007 [ICS,7]
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	IPCR	C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G02B [I,S]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
WO 2004029672	IPCI	C07D0279-18 [ICM,7]; C07D0279-00 [ICM,7,C*]; G11B0007-24 [ICS,7]
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AU 2003275316	IPCI	C07D0279-18 [ICM,7]; C07D0279-00 [ICM,7,C*]; G11B0007-24 [ICS,7]
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EP 1551817	IPCI	C07D0279-18 [ICM,7]; C07D0279-00 [ICM,7,C*]; G11B0007-24 [ICS,7]
	IPCR	C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G02B [I,S]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
CN 1774427	IPCI	C07D0279-18 [I,A]; C07D0279-00 [I,C*]; G11B0007-24 [I,A]

AB The invention relates to a method and system for providing copy-protected optical medium using transient optical state change security materials capable of changing optical state and software code to detect such change in optical state. The material protects stored information from copied by a conventional optical medium reader.

```
ST   optical copy protection reader disk
IT   Optical disks
        (copy-protected; materials for optical medium copy-protection
        transiently reacting to a reader beam of optical disk)
IT   Dyes
        (materials for optical medium copy-protection transiently reacting to a
        reader beam of optical disk)
IT   74-88-4, Methyl iodide, reactions   92-84-2, Phenothiazine   124-40-3,
     Dimethylamine, reactions   539-44-6   563-80-4   7553-56-2, Iodine,
     reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (copy protection dye of materials for optical medium)
IT   109-77-3P, Malononitrile   261-89-2DP, Phenothiazin-5-ium, tetraiodide
     salt   3484-22-8P   636602-79-4P   ***636602-80-7P***
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (copy protection dye of materials for optical medium)
IT   86879-79-0P
     RL: SPN (Synthetic preparation); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (copy protection dye of materials for optical medium)
IT   23168-55-0   96692-25-0   144280-08-0   ***636602-81-8***     636602-82-9
     636602-83-0   636602-84-1
     RL: TEM (Technical or engineered material use); USES (Uses)
        (copy protection dye of materials for optical medium)
RE.CNT  1     THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Smith; US 5815484 A 1998


=> d his

     (FILE 'HOME' ENTERED AT 15:48:15 ON 08 AUG 2006)

     FILE 'CAPLUS' ENTERED AT 15:48:28 ON 08 AUG 2006
L1            1 S  US 2004-0121262/PN
L2            0 S  US 2004-00049222/PN
L3            3 S  US 2004-0004922/PN

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L4              TRA L1 1- RN :       19 TERMS

     FILE 'REGISTRY' ENTERED AT 15:49:31 ON 08 AUG 2006
L5           19 SEA L4
L6            6 S L5 AND PHENOTHIAZIN?

     FILE 'CAPLUS' ENTERED AT 15:51:52 ON 08 AUG 2006
L7              TRA L3 1- RN :       47 TERMS

     FILE 'REGISTRY' ENTERED AT 15:51:53 ON 08 AUG 2006
L8           47 SEA L7
L9            5 S L8 AND PHENOTHIAZIN?
L10          10 S L9 OR L6
L11           2 S L10 AND (DINITRILE OR PROPANEDINITRILE OR DIOXANE)

     FILE 'CAPLUS' ENTERED AT 15:54:03 ON 08 AUG 2006
L12           1 S L11

=> log y
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               3.53      60.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                              -0.75      -0.75

STN INTERNATIONAL LOGOFF AT 15:54:23 ON 08 AUG 2006
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LOGINID:ssspat1756mja

PASSWORD:
LOGINID/PASSWORD REJECTED

The loginid and/or password sent to STN were invalid.
You either typed them incorrectly, or line noise may
have corrupted them.

Do you wish to retry the logon?
Enter choice (y/N):
Do you wish to use the same loginid and password?
Enter choice (y/N):
Enter new loginid (or press [Enter] for ssspat1756mja):
Enter new password:

LOGINID:
LOGINID:ssspta1756mja

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 27   New STN AnaVist pricing effective March 1, 2006
 NEWS  4  APR 04   STN AnaVist $500 visualization usage credit offered
 NEWS  5  MAY 10   CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  6  MAY 11   KOREAPAT updates resume
 NEWS  7  MAY 19   Derwent World Patents Index to be reloaded and enhanced
 NEWS  8  MAY 30   IPC 8 Rolled-up Core codes added to CA/CAplus and
                   USPATFULL/USPAT2
 NEWS  9  MAY 30   The F-Term thesaurus is now available in CA/CAplus
 NEWS 10  JUN 02   The first reclassification of IPC codes now complete in
                   INPADOC
 NEWS 11  JUN 26   TULSA/TULSA2 reloaded and enhanced with new search and
                   and display fields
 NEWS 12  JUN 28   Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 13  JUl 11   CHEMSAFE reloaded and enhanced
 NEWS 14  JUl 14   FSTA enhanced with Japanese patents
 NEWS 15  JUl 19   Coverage of Research Disclosure reinstated in DWPI

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *
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100.0% PROCESSED        0 ITERATIONS                                    0 ANSWERS
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FULL SCREEN SEARCH COMPLETED -        4 TO ITERATE

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SEARCH TIME: 00.00.01

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=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                   668.20     668.41

FILE 'CAPLUS' ENTERED AT 16:11:14 ON 08 AUG 2006
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FILE COVERS 1907 - 8 Aug 2006  VOL 145 ISS 7
FILE LAST UPDATED: 7 Aug 2006  (20060807/ED)

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=> s l6
L9             4 L6

=> d all 1-4

L9   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2003:1007251  CAPLUS <<LOGINID::20060808>>
DN   140:50342
ED   Entered STN:  26 Dec 2003
TI   Materials for optical medium copy-protection transiently reacting to a
     reader beam of optical disk
IN   Selinfreund, Richard H.; Gerber, Scott; Goyette, Donald R.; Colandreo,
     Michael; Vig, Rakesh; Li, Junzhong; Cook, Ewell; Turner, Tomeko
PA   Verification Technologies, Inc., USA
SO   PCT Int. Appl., 51 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
IC   ICM  G11B007-00
     ICS  B29D011-00
CC   74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other
     Reprographic Processes)
     Section cross-reference(s): 41
FAN.CNT 5
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           LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
           PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
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     WO 2004029672       A2    20040408    WO 2003-US30897        20030926
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            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
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     CN 1774427          A     20060517    CN 2003-825305         20030926
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     US 2002-390647P     P     20020621
     US 2002-391773P     P     20020625
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     US 2002-393397P     P     20020702
     US 2002-413934P     P     20020926
     WO 2003-US11975     W     20030417
     WO 2003-US30897     W     20030926
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                          [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A];
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                   ECLA   G11B007/007R; G11B007/013D; G11B007/243
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                          [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A];
                          G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007
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 AU 2003225045     IPCI   G11B0007-00 [ICM,7]; B29D0011-00 [ICS,7]
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                          G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007
                          [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A];
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EP 1532623	IPCI	G11B0007-00 [ICM,7]; B29D0011-00 [ICS,7]
	IPCR	B29D0011-00 [I,A]; B29D0011-00 [I,C*]; C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007 [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	ECLA	G11B007/007R; G11B007/013D; G11B007/243
JP 2005530285	IPCI	G11B0007-24 [ICM,7]; C07D0279-18 [ICS,7]; C07D0279-00 [ICS,7,C*]; G11B0007-005 [ICS,7]; G11B0007-00 [ICS,7,C*]; G11B0007-007 [ICS,7]
	IPCR	B29D0011-00 [I,A]; B29D0011-00 [I,C*]; C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G11B0007-00 [I,A]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-007 [I,A]; G11B0007-007 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	FTERM	4C036/AA02; 4C036/AA07; 4C036/AA08; 5D029/JB47; 5D029/MA04; 5D029/MA18; 5D029/MA31; 5D090/AA01; 5D090/BB02; 5D090/CC18; 5D090/FF09; 5D090/FF49; 5D090/GG34
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	IPCR	C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G02B [I,S]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
WO 2004029672	IPCI	C07D0279-18 [ICM,7]; C07D0279-00 [ICM,7,C*]; G11B0007-24 [ICS,7]
	IPCR	C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G02B [I,S]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
AU 2003275316	IPCI	C07D0279-18 [ICM,7]; C07D0279-00 [ICM,7,C*]; G11B0007-24 [ICS,7]
	IPCR	C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G02B [I,S]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
US 2004121262	IPCI	G11B0007-24 [ICM,7]; C07D0279-18 [ICS,7]; C07D0279-00 [ICS,7,C*]
	IPCR	C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	NCL	430/270.150
EP 1551817	IPCI	C07D0279-18 [ICM,7]; C07D0279-00 [ICM,7,C*]; G11B0007-24 [ICS,7]
	IPCR	C07D0279-00 [I,C*]; C07D0279-18 [I,A]; G02B [I,S]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
CN 1774427	IPCI	C07D0279-18 [I,A]; C07D0279-00 [I,C*]; G11B0007-24 [I,A]

AB The invention relates to a method and system for providing copy-protected optical medium using transient optical state change security materials capable of changing optical state and software code to detect such change in optical state. The material protects stored information from copied by a conventional optical medium reader.

ST optical copy protection reader disk

IT Optical disks
(copy-protected; materials for optical medium copy-protection transiently reacting to a reader beam of optical disk)

IT Dyes
(materials for optical medium copy-protection transiently reacting to a reader beam of optical disk)

IT 74-88-4, Methyl iodide, reactions 92-84-2, Phenothiazine 124-40-3, Dimethylamine, reactions 539-44-6 563-80-4 7553-56-2, Iodine, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(copy protection dye of materials for optical medium)

IT 109-77-3P, Malononitrile 261-89-2DP, Phenothiazin-5-ium, tetraiodide salt 3484-22-8P 636602-79-4P ***636602-80-7P***
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(copy protection dye of materials for optical medium)

IT 86879-79-0P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(copy protection dye of materials for optical medium)
IT 23168-55-0 96692-25-0 144280-08-0 636602-81-8 636602-82-9
636602-83-0 636602-84-1
RL: TEM (Technical or engineered material use); USES (Uses)
(copy protection dye of materials for optical medium)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Smith; US 5815484 A 1998

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:472605 CAPLUS <<LOGINID::20060808>>
DN 125:127309
ED Entered STN: 09 Aug 1996
TI Nonlinear optical materials and heterocyclic dyes for them
IN Aramaki, Shinji; Kubo, Yoshiharu
PA Mitsubishi Chemical Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G02F001-35
ICS C07D241-46; C07D279-36; C09B057-00
CC 73-10 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 41
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08122836	A2	19960517	JP 1994-253795	19941019

PRAI JP 1994-253795 19941019
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 08122836	ICM	G02F001-35
	ICS	C07D241-46; C07D279-36; C09B057-00
	IPCI	G02F0001-35 [ICM,6]; C07D0241-46 [ICS,6]; C07D0279-36 [ICS,6]; C09B0057-00 [ICS,6]

OS MARPAT 125:127309
GI

/ Structure 1 in file .gra /

AB The dyes comprise heterocyclic compds. described by the general formula I [X = S, NR4; R1-2 = (substituted) alkyl; R1 and R2 may bond to form a ring; R3 = H, (substituted) alkyl, (substituted) alkoxy, (substituted) acylamino,; R4 = H, alkyl; Q = C(CN)2, C(CONH2), NCN.]. The materials contain the dyes and have structures without inversion symmetry. The dyes show high hyperpolarizability.
ST nonlinear optical material heterocyclic dye
IT Dyes
(heterocyclic; nonlinear optical materials contg. heterocyclic dyes)
IT Optical materials
(nonlinear, nonlinear optical materials contg. heterocyclic dyes)
IT 9011-14-7, Poly(methyl methacrylate)
RL: DEV (Device component use); USES (Uses)
(nonlinear optical materials contg. heterocyclic dyes)
IT ***121262-87-1***
RL: TEM (Technical or engineered material use); USES (Uses)
(nonlinear optical materials contg. heterocyclic dyes)

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1990:189089 CAPLUS <<LOGINID::20060808>>
DN 112:189089
ED Entered STN: 12 May 1990
TI Napthoquinonmethide derivatives for optical recording materials
IN Kubo, Yuji; Yoshida, Katsuhei
PA Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent

LA Japanese
IC ICM C07D279-36
ICS B41M005-26
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 28
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01228976	A2	19890912	JP 1988-53766	19880309

PRAI JP 1988-53766 19880309

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 01228976	ICM	C07D279-36
	ICS	B41M005-26
	IPCI	C07D0279-36 [ICM,4]; C07D0279-00 [ICM,4,C*]; B41M0005-26 [ICS,4]

GI

/ Structure 2 in file .gra /

AB The title deriv. is I [R1, R2 = lower alkyl]. The deriv. is useful in optical recording media. The deriv. shows 600-700 nm absorption.
ST naphthoquinonmethide deriv optical recording material
IT Recording materials
(optical, naphthoquinonmethide deriv. as)
IT ***126656-07-3*** ***126656-08-4*** ***126656-09-5***
126656-10-8 ***126656-11-9*** ***126656-12-0***
126656-13-1 ***126656-14-2*** ***126656-15-3***
126656-16-4 ***126656-17-5***
RL: USES (Uses)
(optical recording material)
IT ***121262-87-1P*** ***126656-04-0P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use of, as optical recording material)
IT 5518-09-2 126656-05-1 126656-06-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, naphthoquinonmethide optical recording material from)

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1989:424940 CAPLUS <<LOGINID::20060808>>
DN 111:24940
ED Entered STN: 21 Jul 1989
TI Synthesis of 3-dicyanomethylene-7-diethylaminobenzo[a]phenothiazone
AU Kubo, Yuji; Kuwana, Minoru; Yoshida, Katsuhira
CS Fac. Sci., Kochi Univ., Kochi, 780, Japan
SO Chemistry Express (1988), 3(11), 663-6
CODEN: CHEXEU; ISSN: 0911-9566
DT Journal
LA English
CC 41-5 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
GI

/ Structure 3 in file .gra /

AB The deep colored title compd. I, which has an absorption max. at 659 nm (.epsilon.max = 61300 mol-1dm3cm-1) in CHCl3 was prepd. by condensing 1-naphthylmalononitrile with 2-amino-5-diethylaminophenylthiosulfuric acid.
ST UV dicyanomethylenediethylaminobenzophenothiazone; benzophenothiazone dicyanomethylene diethylamino UV; condensation naphthylmalononitrile aminodiethylaminophenylthiosulfuric acid
IT Dyes, cyanine
((dicyanomethylene)(diethylamino)benzophenothiazone, prepn. and UV

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      spectrum of)
IT   Ultraviolet and visible spectra
      (of (dicyanomethylene)diethylaminobenzophenothiazone)
IT   116429-26-6
     RL: PRP (Properties)
      (UV spectrum of)
IT   5518-09-2, 2-(1-Naphthyl)malononitrile
     RL: USES (Uses)
      (condensation of, with amino(diethylamino)phenylthiosulfuric acid)
IT   93739-14-1, 2-Amino-5-diethylaminophenylthiosulfuric acid
     RL: USES (Uses)
      (oxidative condensation of, with naphthylmalononitrile)
IT    ***121262-87-1P***
     RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
      (prepn. and UV spectrum of)


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     (FILE 'HOME' ENTERED AT 16:08:05 ON 08 AUG 2006)

     FILE 'REGISTRY' ENTERED AT 16:08:14 ON 08 AUG 2006
L1             STRUCTURE UPLOADED
L2             STRUCTURE UPLOADED
L3             STRUCTURE UPLOADED
L4             STRUCTURE UPLOADED
L5           0 S L1 SSS FULL
L6          14 S L2 SSS FULL
L7           0 S L3 SSS FULL
L8           0 S L4 SSS FULL

     FILE 'CAPLUS' ENTERED AT 16:11:14 ON 08 AUG 2006
L9           4 S L6

=> log y
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                12.74     681.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                -3.00      -3.00

STN INTERNATIONAL LOGOFF AT 16:11:47 ON 08 AUG 2006
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